

What is claimed is:

1. A method of making a woven spider comprising selecting a thread of the cloth from which the spider is to be woven, wrapping the selected thread
5 with an electrical conductor and weaving the wrapped thread at the selected location in the cloth.

2. The method of claim 1 further comprising the steps of, after weaving the wrapped thread at the selected location in the cloth, forming the cloth into a spider, incorporating the spider into a moving coil transducer and making
10 electrical contact to the moving coil of the moving coil transducer through the electrical conductor wrapped around the thread.

3. The method of claim 2 wherein the step of weaving the wrapped thread at the selected location in the cloth comprises the step of weaving the wrapped thread at the selected location with a float, and the step of forming the cloth
15 into a spider comprises the step of forming a region of the cloth adjacent the float as a perimeter of the spider.

4. The method of claim 1, 2 or 3 wherein the step of wrapping the selected thread with an electrical conductor comprises wrapping multiple threads with multiple electrical conductors and the step of weaving the wrapped thread at the
20 selected location comprises weaving the multiple wrapped threads at a single shed or course in the cloth.

5. The method of claim 4 and further comprising, after wrapping multiple threads with electrical conductors and before weaving the multiple wrapped threads at a single shed or course in the cloth, the step of twisting the multiple
25 wrapped threads together.

6. The method of claim 1, 2 or 3 and further comprising, after wrapping the selected thread with an electrical conductor and before weaving the wrapped thread at the selected location in the cloth, the step of treating the wrapped thread with a first substance to render the wrapped thread relatively impervious to a

09284231 "061901
TOP SECRET

second substance, and then, after weaving the wrapped thread at the selected location in the cloth, the step of treating the cloth with the second substance.

7. The method of claim 6 wherein the step of treating the wrapped thread with a first substance comprises the step of treating the wrapped thread with a wax.

8. The method of claim 7 wherein treating the cloth with the second substance comprises the step of treating the cloth with a phenolic resin.

9. The method of claim 6 wherein treating the cloth with the second substance comprises the step of treating the cloth with a phenolic resin.

10. The method of claim 4 and further comprising, after wrapping the multiple threads with multiple electrical conductors and before weaving the wrapped threads at the selected location in the cloth, the step of treating the wrapped threads with a first substance to render the wrapped threads relatively impervious to a second substance, and then, after weaving the wrapped threads at the selected location in the cloth, the step of treating the cloth with the second substance.

11. The method of claim 10 wherein the step of treating the wrapped threads with a first substance comprises the step of treating the wrapped threads with a wax.

12. The method of claim 11 wherein treating the cloth with the second substance comprises the step of treating the cloth with a phenolic resin.

13. The method of claim 10 wherein treating the cloth with the second substance comprises the step of treating the cloth with a phenolic resin.

14. The method of claim 5 and further comprising, after wrapping the multiple threads with electrical conductors and before weaving the wrapped threads at the selected location in the cloth, the step of treating the wrapped threads with a first substance to render the wrapped threads relatively impervious to a second substance, and then, after weaving the wrapped threads at the selected location in the cloth, the step of treating the cloth with the second substance.

15. The method of claim 14 wherein the step of treating the wrapped threads with a first substance comprises the step of treating the wrapped threads with a wax.

5 16. The method of claim 15 wherein treating the cloth with the second substance comprises the step of treating the cloth with a phenolic resin.

17. The method of claim 14 wherein treating the cloth with the second substance comprises the step of treating the cloth with a phenolic resin.

10 18. The method of claim 2 or 3 wherein making electrical contact to the moving coil of the transducer through the electrical conductor wrapped around the thread comprises the step of applying a conductive adhesive to at least one of the electrical conductor wrapped around the thread and a lead of the moving coil.

15 19. The method of claim 4 wherein making electrical contact to the moving coil of the transducer through the electrical conductor wrapped around the thread comprises the step of applying a conductive adhesive to at least one of the electrical conductor wrapped around the thread and a lead of the moving coil.

20. The woven spider of claim 1.

21. The moving coil transducer of claim 2 or 3.

22. The product of claim 4.

23. The product of claim 5.

20 24. The product of claim 6.

25. The product of claim 7.

26. The product of claim 8.

27. The product of claim 9.